

## SENIOR LECTURER IN CHEMICAL ENGINEERING CHEMICAL ENGINEERING DEPARTMENT

Job Ref: REQ171130

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

*The Department of Chemical Engineering is seeking to recruit three academic posts (at Senior Lecturer or Lecturer level) to enhance our research, our teaching and our enterprise activities. The successful candidates will engage in a high-quality research programme that complements, broadens and deepens our existing research strengths in the following areas: (i) Pharmaceutical and Bioengineering (ii) Nano- and Micro- Scale Engineering (iii) Energy and Environmental Engineering and (iv) Catalytic, Separation and Purification Technology. Candidates with expertise in Industrial Biotechnology, Bioenergy, and Bioengineering or in Energy and Environmental fields are particularly encouraged to apply. The successful candidates will be expected to develop excellent teaching in chemical engineering and/or in specialist programmes. Loughborough is a top-ten university in all major UK league tables. The University places a high value on the quality of its student learning and teaching experience and was awarded Gold in the recent Teaching Excellence Framework. Chemical Engineering achieved 97% student satisfaction (2nd in the UK) in the National Student Survey 2017. The School is highly research active, returning 98% of its academics in REF 2014, achieving a UK ranking of 3rd in UoAB12 (on GPA x Volume), with 83% of research rated 4\* or 3\*. The Chemical Engineering Department hosts two Centres for Doctoral Training, one in Regenerative Medicine with Keele and Nottingham Universities, and an EPSRC Research Hub focusing on Future Continuous Manufacturing and Crystallisation with Strathclyde University. The Department is also a major partner in the Centre for Biological Engineering, a world-class research facility in healthcare engineering and cell technologies. Close industrial links run throughout our research and taught programmes. We are seeking candidates with a strong track record in research, and for the more senior post, team leadership and success in securing funding. Successful candidates will pursue a research programme of international standing and will contribute to the high standards of teaching in the discipline.*

Further information about the Department can be found here:

<http://www.lboro.ac.uk/departments/chemical/>

### Job Description

Please note that this is a generic job description for the position of Senior Lecturer.

#### Job Grade

Research, Teaching and Enterprise Grade 8

#### Job Purpose

To take a leading role in developing and enhancing the research, teaching and enterprise activities of the School of Aeronautical, Automotive, Chemical and Materials Engineering, within the Department of Chemical Engineering in support of the University's Strategy, Building Excellence. Research activities in the areas of Industrial Biotechnology, Bioenergy, and Bioengineering or in Energy and Environmental fields are preferred.

## **Job Duties**

### **Research**

- To pursue a personal research programme consistent with the research priorities of the School of Aeronautical, Automotive, Chemical and Materials Engineering, within the Department of Chemical Engineering that increases the global visibility and reputation of the University.
- To secure external research funding.
- To supervise and manage research projects.
- To publish the outcomes of research in outlets of international standing.
- To attend and contribute to the organisation of major international conferences.
- To supervise postgraduate students at Masters and Doctoral levels.
- To lead and collaborate in research initiatives with colleagues both within the University and externally.

### **Teaching**

- To work with colleagues in the School to deliver an exceptional learning environment for students.
- To teach and inspire undergraduate and postgraduate students, and to conduct associated assessments.
- To provide academic and pastoral support to undergraduate and postgraduate students.
- To promote the use of a range of methods and techniques in teaching, learning and assessment.
- To engage in the evaluation and development of modules for which you have responsibility, in terms of content, delivery and assessment.
- To be responsible for the design and content of specific areas of teaching and learning within the School's undergraduate and postgraduate programmes.
- To lead colleagues in the continuous review and development of the School's taught programmes and the curriculum.

### **Enterprise**

- To lead engagement with business, public and voluntary organisations through knowledge exchange activities such as student projects and placements, research collaboration, consultancy and specialist training.
- To create social, cultural and economic impacts from academic, especially research, activity.
- To secure external funding in support of these activities.
- To seek opportunities for the commercialisation of research and the formation of social enterprises.

### **Related Activities and Functions**

- To work effectively with relevant administrative, technical and academic staff in the School and across the University.
- To carry out specific administrative roles and functions as may be reasonably required.
- To take part in and, on occasion, act as chair of one or more of the School's committees.
- To engage in training programmes in the University (e.g. through Staff Development) which are consistent with your needs and aspirations and those of the School.
- To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.
- To engage fully with the annual Performance and Development Review (PDR) process.

### **Points To Note**

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed

### **Special Conditions**

All staff have a statutory responsibility to take reasonable care of themselves, others and the environment and to prevent harm by their acts or omissions. All staff are therefore required to adhere to the University's Health, Safety and Environmental Policy & Procedures.

All staff should hold a duty and commitment to observing the University's Equality & Diversity policy and procedures at all times. Duties must be carried out in accordance with relevant Equality & Diversity legislation and University policies/procedures.

Successful completion of probation will be dependent on attendance at the University's mandatory courses which include Respecting Diversity and, where appropriate, Recruitment and Selection.

### **Organisational Responsibility**

Reports to the Dean of AACME through the HoD of Chemical Engineering

## Person Specification

Your application will be reviewed with respect to meeting the essential and desirable criteria listed below. Your application will be reviewed against the essential and desirable criteria listed below. Applicants are strongly advised to explicitly state and evidence how they meet each of the essential (and desirable) criteria in their application. Stages of assessment are as follows:

- 1 – Application
- 2 – Test/Assessment Centre/Presentation
- 3 – Interview

### Essential Criteria

Area	Criteria	Stage
Experience	Evidence of research and/or academic activity in a subject/discipline consistent with the needs of the School of Aeronautical, Automotive, Chemical and Materials Engineering.	1
	A record of excellence, which is contributing to the furtherance of knowledge in area of activity, and is recognized at least nationally in that area.	1,2,3
	Experience of working in an internationally recognised academic research environment, including significant experience at post-doctoral level.	1
	Evidence of authoring a substantial body of original work, in the highest quality refereed academic journals.	1
	Significant experience of successfully supervising the projects of taught and research students or company staff at equivalent levels.	1,3
	Candidates from outside of academia must be able to demonstrate the ability to make the transition to becoming a top academic	1,2,3
Skills and abilities	Experience of presenting research work at conferences.	1
	Experience of teaching and assessment at undergraduate and postgraduate level and of curriculum development.	1,3
	Demonstrated ability to develop an original research programme on your own initiative and to persuade others of its importance orally and on paper.	2,3
	Demonstrated ability to secure research and/or enterprise funds from external / company sources.	1,3
	Demonstrated ability to create social / cultural / economic impacts from professional activity.	2,3
	A clear trajectory towards achievements at a higher academic level.	1,2,3
	Excellent communication and interpersonal skills which give you the ability to engage with students, colleagues, business and other agencies on a wide variety of matters.	1,2,3
	Ability to work as part of and to lead a team.	2,3
	Excellent IT skills.	1
Training	Commitment to and evidence of continuing professional development.	1,3
Qualifications	Relevant PhD or equivalent experience.	1
Other	Commitment to observing the University's Equal Opportunities policy at all times.	1,3

	Formal recognition of professional standing in teaching (e.g. Fellow of the HEA) or commitment to obtaining this within reasonable timeframe.	1
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### Desirable Criteria

Area	Criteria	Stage
Experience	Experience of work in or in collaboration with [business].	1
	Experience of presenting research work at international conferences.	1
	Experience in commercial exploitation of products / services or formation of social enterprises.	1.3
Skills and abilities	<p>A sound understanding of the structure of universities and issues facing the UK higher education sector, for example:</p> <ul style="list-style-type: none"> <li>• Research funding opportunities in UK HE.</li> <li>• The challenges faced in recruiting students to UK HE</li> <li>• Achieved or progressing towards appropriate professional status.</li> </ul>	2,3 1 1
Qualifications		

### Conditions of Service

The position is full time and open-ended. Salary will be on Research, Teaching and Enterprise grade 8, £50,618 to £56,950 per annum, at a starting salary to be confirmed on offer of appointment. Subject to annual pay award.

The appointment will be subject to the University's normal Terms and Conditions of Employment for Academic and Related staff, details of which can be found [here](#).

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which are available at <http://www.lboro.ac.uk/services/hr/a-z/family-leave-policy-and-procedure---page.html> .

We also offer an on-campus nursery with subsidised places, subsidised places at local holiday clubs and a childcare voucher scheme (further details are available at: <http://www.lboro.ac.uk/services/hr/a-z/childcare-information---page.html>

In addition, the University is supportive, wherever possible, of flexible working arrangements. We also strive to create a culture that supports equality and celebrates diversity throughout the campus. The University holds a Bronze Athena SWAN award which recognises the importance of support for women at all stages of their academic career. For further information on Athena SWAN see <http://www.lboro.ac.uk/services/hr/athena-swan/>

### Informal Enquiries

Informal enquiries should be made to Dr Valerie Pinfield by email at [v.pinfield@lboro.ac.uk](mailto:v.pinfield@lboro.ac.uk) or by telephone on 01509 222512 or Professor Chris Rielly by email at [c.d.rielly@lboro.ac.uk](mailto:c.d.rielly@lboro.ac.uk) or by telephone on 01509 222504.

### Applications

The closing date for receipt of applications is **31 December 2017**.